INTERNATIONAL SEARCH REPORT

Internatic lication No PCT/EF 08082

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7-A61K-C07H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, MEDLINE, EMBASE, BIOSIS, BEILSTEIN Data, CHEM ABS Data

Data	ternal, WPI Data, PAO, MEDLINE, EMBA	on, broate, branches	•
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.
Y	ZUNINO F ET AL: "BIOLOGIC ACTIVI DAUNORUBICIN LINKED TO PROTEINS V METHYLKETONE SIDE CHAIN" TUMORI, XX, XX, vol. 67, no. 6, 31 December 1981 (1981-12-31), pa 521-524, XP008016382 the whole document	IA THE	1-10
X Fu	ther documents are listed in the continuation of box C.	Patent family members are listed	d in annex.
"A" docum cons "E" earlier filing "L" docum whice citati "O" docum other "P" docum later	nent defining the general state of the art which is not sidered to be of particular relevance r document but published on or after the international plate nent which may throw doubts on priority claim(s) or ship is cited to establish the publication date of another ion or other special reason (as specified) ment referring to an oral disclosure, use, exhibition or means ment published prior to the international filling date but r than the priority date claimed	"T" later document published after the Interpretation or priority date and not in conflict with cited to understand the principle or the invention of the cannot be considered novel or cannot involve an inventive step when the cannot be considered novel or cannot be cannot be cannot be cannot be cannot be cannot be considered to involve an indocument is combined with one or in ments, such combination being obvi in the art. "&" document member of the same pater	claimed invention of be considered to locument is taken alone claimed invention of the considered to locument is taken alone claimed invention inventive step when the nore other such doculous to a person skilled
	e actual completion of the international search	Date of mailing of the International s	earch report
25 November 2003 Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Vadot, P	

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C.(Continua	Ition) DOCUMENTS CONSIDERED TO BE RELEVANT	Lo Lucat to claim No
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Υ	WILLNER D ET AL: "(6-MALEIMIDOCAPROYL)HYDRAZONE OF DOXORUBICIN - A NEW DERIVATIVE FORTHE PREPARATION OF IMMUNOCONJUGATES OF DOXORUBICIN" BIOCONJUGATE CHEMISTRY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 4, 1993, pages 521-527, XP000783675 ISSN: 1043-1802 the whole document	1-10
Y	RHO ET AL.: "Synthesis of new anthracycline derivatives containing acetylsylicylic or palmitic acid moiety" BULL. KOREAN CHEM. SOC., vol. 22, no. 6, 2001, pages 587-592, XP002240301 Seoul the whole document	1-10
A	RHO ET AL.: "Synthesis of new anthracycline derivatives containing pyruvic, aspartic, or N-acetylaspartic acid molecule" SYNTHETIC COMMUNICATIONS, vol. 32, no. 13, 2002, pages 1961-1975, XP001148932 USA	
A	EP 0 295 119 A (MICROBIAL CHEM RES FOUND) 14 December 1988 (1988-12-14) cited in the application	
A	US 4 360 664 A (UMEZAWA HAMAO ET AL) 23 November 1982 (1982-11-23)	
A	EP 0 039 060 A (MICROBIAL CHEM RES FOUND) 4 November 1981 (1981-11-04)	
A	KRUEGER M ET AL: "Synthesis and stability of four maleimide derivatives of the anticancer drug doxorubicin for the preparation of chemoimmunoconjugates" CHEMICAL AND PHARMACEUTICAL BULLETIN, PHARMACEUTICAL SOCIETY OF JAPAN. TOKYO, JP, vol. 45, no. 2, 1997, pages 399-401, XP002162561 ISSN: 0009-2363	

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	NAGY A ET AL: "Synthesis and biological evaluation of cytotoxic analogs of somatostatin containing doxorubicin or its intensely potent derivative, 2-pyrrolinodoxorubicin" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 95, no. 4, 17 February 1998 (1998-02-17), pages 1794-1799, XP002220092 ISSN: 0027-8424		
A	HOES C J T ET AL: "Synthesis and biological evaluation of immunoconjugates of adriamycin and a human IgM linked by poly'N-(2-hydroxyethyl)-1-glutamine!" JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, NL, vol. 38, no. 2, 1 February 1996 (1996-02-01), pages 245-266, XP004037410 ISSN: 0168-3659		
А	PRIEBE W ET AL: "Doxorubicin- and daunorubicin-glutathione conjugates, but not unconjugated drugs, competitively inhibit leukotriene C4 transport mediated by MRP/GS-X pump" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ACADEMIC PRESS INC. ORLANDO, FL, US, vol. 247, no. 3, 29 June 1998 (1998-06-29), pages 859-863, XP002217454 ISSN: 0006-291X		
A	WO 99 57126 A (KANG HEUN SOO ;RHO YOUNG S (KR); PARK SANG CHUL (KR)) 11 November 1999 (1999-11-11)		



International application No. PCT/EP 03/08082

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable daims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 5-8,12,13,16-20,22,23 relate to a method for preparing an extremely large number of possible compounds/methods. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds/methods claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely the examples.

Present claim 2 relate to a method for preparing compound defined by reference to a desirable characteristic or property, namely "a functional group able to react with a thiol"

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product/compound/method/apparatus by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely the examples.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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